

PATENT  
USSN 08/974,584  
015389-002950US  
018/206p2

REMARKS

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AUG 03 2006

This paper is responsive to the Office Action dated June 2, 2006.

Claims 119 and 127-131 were pending in this application. Claims 119 and 129 have been examined and stand variously rejected. Upon entry of this amendment, certain claims are amended and claim 128 is cancelled. Accordingly, the pending claims are 119, 127, and 129-131.

Applicants acknowledge with gratitude withdrawal of rejections previously made under 35 USC § 102(e) with respect to U.S. Patent 6,093,809. Further consideration and allowance of the application is respectfully requested.

Interview summary

The undersigned wishes to thank Examiner Myers for the helpful telephone interview conducted on July 6, 2006. The claim wording presented in this Amendment was discussed, along with ways of overcoming the current rejections in the case.

The application is now believed to be in condition for allowance, which is respectfully requested.

Restriction requirement and request for rejoinder

The Office Action states that claims 128 and 130 as previously presented were drawn to subject matter outside the invention elected for examination. Applicants agree. Claim 128 has now been cancelled, and claim 130 has been rewritten as a polynucleotide claim, depending from another polynucleotide claim in the elected group.

Applicants hereby renew their request that claims 127 and 131 be rejoined into the group under examination upon determination that the product claims from which they depend are patentable.

Rejection under 35 USC § 112 ¶ 2

Claim 119 and 129 stand rejected as indefinite for reasons of claim wording. The claims have now been amended in accordance with the Examiner's recommendation, for which applicants are grateful.

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Rejections under 35 USC § 112 ¶ 1

Claim 119 stands rejected under the written description and enablement requirements of § 112 ¶ 1, for reasons related to the *proviso* clause as previously presented.

The claim has now been amended to state that the claimed polynucleotide does not contain consecutive nucleotides 1-2009 of SEQ. ID NO:124. Reference to this portion of SEQ. ID NO:124 as part of the mouse telomerase reverse transcriptase cDNA sequence may be found in the specification on page 165, lines 3-10.

Withdrawal of the rejections under 35 USC § 112 ¶ 1 is respectfully requested.

Applicants submit that the claim as presently worded is again not subject to obviousness-type double patenting with respect to U.S. Patent 6,767,719, which claims polynucleotides encoding mouse telomerase reverse transcriptase, and functional homologs thereof. Appendix A compares SEQ. ID NO:124 of this application with the cDNA and encoded protein sequence from the '719 patent. SEQ. ID NO:124 encodes 658 amino acids (i.e., over half) of the native mTRT protein.

Double patenting

Claims 119 and 129 of this application stand rejected for obviousness-type double patenting over certain claims of U.S. Patents 6,927,285; 6,921,664; 6,337,200; 6,475,789; and 6,444,650. These claims are also provisionally rejected for obviousness type double patenting over certain claims of copending applications USSN 09/721,477; USSN 10/877,124; USSN 10/044,539; USSN 09/721,506; USSN 11/207,078; and USSN 10/044,692.

Applicants respectfully submit that nothing needs to be done with respect to USSN 09/721,477; USSN 11/207,078, and USSN 10/044,692, because they are less advanced in prosecution and not expected to issue first. The other patents and applications will be addressed under separate cover.

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Rejection under 35 USC § 102(e):

The claims under examination stand rejected under § 102(e) as being anticipated by what is disclosed in U.S. Patent 6,309,867, which names different inventors from the inventors named in the present application.

Enclosed with this Amendment is a second Declaration under 37 CFR § 1.132 by Calvin Harley. He explains that the *Schizosaccharomyces pombe* sequence was deduced by Thomas Cech and Toru Nakamura. Only the *pombe* protein sequence is claimed in the '867 patent, and so the patent appropriately names Cech and Nakamura as the inventive entity. However, the human TERT sequence and use thereof disclosed but not claimed in the '867 patent was deduced by the same inventors as are named on the present application.

Thus, the relevant information disclosed in the cited patent does not qualify as an invention by "another" under 35 USC § 102(e). Withdrawal of this rejection is respectfully requested.

Request for further interview

Applicants respectfully request that all outstanding rejections be reconsidered and withdrawn. Once the double patenting issues are addressed, the application should be in condition for allowance, and a prompt Notice of Allowance is requested.

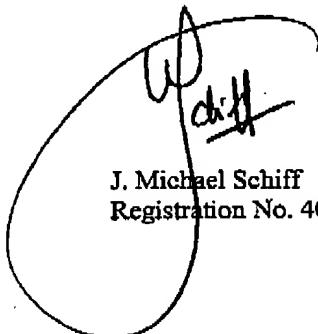
In the event that the Examiner determines that there are other matters to be addressed, applicants hereby request an interview by telephone.

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Fees due

No fee is believed payable with respect to entry and consideration of this response. However, should the Patent Office determine that a further extension of time or any other relief is required for further consideration of this application, applicants hereby petition for such relief, and authorize the Commissioner to charge the cost of such petitions and other fees due in connection with the filing of these papers to Deposit Account No. 07-1139, referencing the docket number indicated above.

Respectfully submitted,



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July 21, 2006

## Appendix A

**SEQ. ID NO.124 of the current application**

CGGGTCGGAG GCCCATCCCC GCCTTGAGCA CAATGACCCG CGCTCCTCGT TGCCCCCGGG TCCGCTCTCT GCTGCCAGC  
CGATACCGG AGGTGTGGCC GCTGGCAACC TTTCGCGGC CGCTGGGGC CGAGGGCAGG CGCTTGTGC AACCGGGGA  
CCCGAACATC TACCCCACTT TGGTTGCCA ATGCCTAGTG TGCATGCACT GGGGCTACA GCCTCACCT CCCACCTTT  
CCTTCCACCA GGTTGTATCC CTGAAAGACC TGGTGGCCAG GTTGTGCGAG AGACTCTGCG ACCGCAACGA GAGAAACGTG  
CTGGCTTTTG GCTTTGAGCT GCTTAACCGAG CCCAGGGCG GGCCTCCCAT GGCCTTCACT AGTAGCGTGC GTAGCTACTT  
GCCCAACACT GTTATTGAGA CCCTGCGTGT CAGTGGTGC TGGATGCTAC TGTTGAGGGC ACTGGGGCAC GACCTGCTGG  
TCTACCTGCT GCCACACTGT GCTCTTATC TTCTGGTCCC CCCCAGCTGT GCCTACCGG TCTGTGGTC TCCCCGTAC  
CAAATTGTC CCACACCGGA TATCTGGCCC TCTGTGTCGG CTAGTTACAG GCCCACCCGA CCCGTGGCA GGAATTTCAC  
TAACCTTGG TTCTTACAAC AGATCAAGAG CAGTAGTCGC CGGAAGCAC CGAAACCCCT GGCCTTGCA TCTCGAGCTA  
CAAAGAGCA TCTGAGTCTC ACCAGTACAA CTGTGCTTC ACCTAAGAAG CCCAGATGCT ATCCTGTCCC GAGAGTGGAG  
GAGGGACCC ACACGGCAGGT CCTACCAACC CCATCAGGGCA AATCATGGGT GCCAAGTCT GCTCGGTCCC CGAGGTCG  
TACTGCAAG AGAACCTTGT CTTCTAAAGG AAAGGTGTCT GACCTGAGTC TCTCTGGTC GTGTGCTGT AAACACAAGC  
CCAGCTTAC ATCTCTGCTG TCACCAACCC GCAAATGCA CTTTCAGCTC AGGCCATTAA TTGAGACCAAG ACATTTCTT  
TACTCCAGG CAGATGGCA AGAGCCTTA AACCCTCAT TCCCTACTCAG CAACCTCCAG CCTAACTTGA CTGGGGCCAG  
GAGACTGGT GAGATCATCT TTCTGGGTC AAGGCTAGG ACATCAGGAC CACTCTCAG GACACACCGT CTATCCGTC  
QATACTGCA GATGGGGCCC CTGTTCCAAC AGCTGCTGT GAACCATGCA GAGTGCAAT ATGTCAGACT CCTCAGGTCA  
CATTGCAAGT TTGCAACAGC AAACCAACAG CTGACAGATG CTTGAACAC CAGCCCCACCG CACCTCATGG ATTGTCCTCG  
CCTGCACAGC AGTCCCTGGC AGGTATATGG TTTTCTTCGG GCTGTCTCT GCAAGGTGGT GTCTGCTAGT CTCTGGGTG  
CCAGGCACAA TGACCCCGC TTCTTTAAGA ACTTAAAGAA TTTCATCTG TTGGGGAAT ACCGCAAGCT ATCACTGCAG  
GAACGTGTT GGAAGATGAA AGTAGAGGAT TGCCACTGGC TCCGCAGCA CGGGGGGAAG GACCGTGTCC CCCCTGCAGA  
GCACCCCTCG AGGGAGAGGA TCCTGGCTAC GTTCTGTTCI TGGCTGATCG ACACATACTG GTTACAGCTG CTAGGTCT  
TCTTTTACAT CACAGAGGC ACATTCCAGA AGAACAGGCT CTTCTTCTAC CGTAAGAGTG TGCGAGCAA GCTCCAGAGC  
ATTGGAGTCA GGCAACACCT TGAGAGAGTC CGGCTACGGG AGCTGTCACA AGAGGAGGTC AGGCATCACC AGGACACCTG  
GCTAGCCATG CCCATCTGCA GACTGCGCTT CATCCCCAAG CCCAACGGCC TGCGGGCAT TGTCAACATG AGTTATAGCA  
TGGGTACCAAG AGCTTGGGC AGAAGGAAGC AGGCCCCAGCA TTTCACCCAG CGTCTCAAGA CTCTCTTCAG CATGCTCAAC  
TATGAGCCG

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*mTERT cDNA sequence (SEQ. ID NO.1) from U.S. Patent 6,767,719*

*mTERT protein sequence (SEQ. ID NO.2) from U.S. Patent 6,767,719*

MTRAPRCPAVRSLLRSRYYREVWPLATFVRRLGPEGRRVLQPGDPKIYRTLVAQCLVCMHWGSQQPPADLSFHQVSSLKELVARVVRQLCERNERNVLAGFELLNEARGGPMPAFTSSVRSYLPNTVIETLRVSGAWMILLLSRSVGDDLLVYLLAHCALYLLVPPSCAYQVCGSPLYQICATTDIWPSVSASYRPTRPGVRNFTNLRLFLQQIKSSSRQEAKPLALPSRGTKRHLSTSTSVPSSAKKARCYVPRVEEGPHRQLPTPSGKSWPSPARSPEVPTAEKDLSSKKVSVSDLSLSSGVSCKKHKPSTSLLSSPRONAFQLRPFIETRHFLYSRGDGQRERLNPNSFLLSNLQPNLTYCARRLVEIQLCSRPTSGCPLCRTRLSSRYYWQHMRPLFQQLLVNHAECQYVRLRSHCRFRTAQNQVTDALNTSPFLHMDLLRLHSSPQWVQYGLFRLACLKVVASLWGTRHNERFFKHKFISLGYKGKSLQELWMKVEDCHWLRLSSPGKDRVPAAEHRLRERIRLATFLFWLMDTYVQQLRSFSFYITESTFQKNRLFRTKRSVWSKLQSICVRQHLERVRRLRELSEEEVRHHQDTWLAMPICLRFPKPNGLRPIVNMSSMGTRALGRRKQAQHFTQLRLKTLFSMLNYERTKHPHLMGSSVLMGNDIYRTWRAFVLRVRALDQTPTPRMFVKADVTGAYDAIPQGKLVEVVANMRHSESTYTCIRQYAVVRRDSQGQVHKSFRQVTTLSDLDQPYMQCFLKLHQDSDASALRNWSIEQSISMNESSSSLFDDFLHFLRHSSVVKICRDCTYTCQGIPQGSSLSTLLCSLCFCGDMENKLFAEVQRDGLLRFDFDPLLVTPLHDQAKTFLSTLVHGVPEYGMINLQKTVNFVPEGTLGGAQPYQLPAHNCGLPVGCLLIDTQTLTEVFCDYSAQTSIKSTSFTQSVFKAGKTMNRNKLLSVLRLKCPGLFLDQLQVNSLQTCINIZYKIFLQLQAYRFHACVIQLPFDQVRKRNLTFFLGISSQASCYAILKVKNPQMTLKASGSFPPEAAHWLQYQAFLKLAHSVIYKCLLGPLRTAQKLLCRKLPEATMTILKAADPALSTDFQTLID

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***BLAST comparison of nucleic acid sequence***

BLASTX algorithm, NCBI website

SEQ. ID NO.124:	1	CGGGTGGAGGCCATCCGGCTTGAGCACAAATGACCCCGCTCTCGTTGCCCGCGG	60
mTRT:	7	CGGGTGGAGGCCATCCGGCTTGAGCACAAATGACCCCGCTCTCGTTGCCCGCGG	66
SEQ. ID NO.124:	61	TGGCCTCTCTGCTGGCAGCCGATAACCGGAGGTGTGGCGCTGGCAACCTTGTGGC	120
mTRT:	67	TGGCCTCTCTGCTGGCAGCCGATAACCGGAGGTGTGGCGCTGGCAACCTTGTGGC	126
SEQ. ID NO.124:	121	GCCTGGGGCCCGACGCCAGGGCTTGCAACCCGGACCCGAAGATCTACCGCACTT	180
mTRT:	127	GCCTGGGGCCCGACGCCAGGGCTTGCAACCCGGACCCGAAGATCTACCGCACTT	186
SEQ. ID NO.124:	181	TGGTTGCCAATGCCATGTGCACTGCCACTGGGCTCACAGCCCTCACCTGCCACCTT	240
mTRT:	187	TGGTTGCCAATGCCATGTGCACTGCCACTGGGCTCACAGCCCTCACCTGCCACCTT	246
SEQ. ID NO.124:	241	CCTTCACCAAGTGTATCCGTAAAGAGCTGGTGGCCAGGGTTGTCAGAGACTCTGG	300
mTRT:	247	CCTTCACCAAGTGTATCCGTAAAGAGCTGGTGGCCAGGGTTGTCAGAGACTCTGG	306
SEQ. ID NO.124:	301	AGCGCAACGAGAGAACGTGGCTTTGGCTTGAGCTGGCTAACGAGGCCAGAGGG	360
mTRT:	307	AGCGCAACGAGAGAACGTGGCTTTGGCTTGAGCTGGCTAACGAGGCCAGAGGG	366
SEQ. ID NO.124:	361	GGCCTCCATGGCTTCACTAGTAGCGTCCGTAGCTACTTGCCAAACACTGTATTGAGA	420
mTRT:	367	GGCCTCCATGGCTTCACTAGTAGCGTCCGTAGCTACTTGCCAAACACTGTATTGAGA	426
SEQ. ID NO.124:	421	CCCTGGGTGTCAGTGTGCAATGGATGCTACTGTTGACCCGAGTGGGGACCGACCTGCTGG	480
mTRT:	427	CCCTGGGTGTCAGTGTGCAATGGATGCTACTGTTGACCCGAGTGGGGACCGACCTGCTGG	486
SEQ. ID NO.124:	481	TCTACCTGCTGGCACACTGTGCTTTATCTCTGGGCCCCCCAGCTGTGCCAACAGG	540
mTRT:	487	TCTACCTGCTGGCACACTGTGCTTTATCTCTGGGCCCCCCAGCTGTGCCAACAGG	546
SEQ. ID NO.124:	541	TGTGTGGGTCTCCCCGTACCAAATTGTGCCACCACGGATATCTGCCCTCTGTGTCCG	600
mTRT:	547	TGTGTGGGTCTCCCCGTACCAAATTGTGCCACCACGGATATCTGCCCTCTGTGTCCG	606
SEQ. ID NO.124:	601	CTAGTTACAGGCCACCGACCCCTGGCAGGAATTCACTAACCTTAGGTTCTAACAC	660
mTRT:	607	CTAGTTACAGGCCACCGACCCCTGGCAGGAATTCACTAACCTTAGGTTCTAACAC	666
SEQ. ID NO.124:	661	AGATCAAGACCACTAGTCGCCAGGAAGCACCGAAACCCCTGGCCTGCCATCTCGAGGTA	720
mTRT:	667	AGATCAAGACCACTAGTCGCCAGGAAGCACCGAAACCCCTGGCCTGCCATCTCGAGGTA	726
SEQ. ID NO.124:	721	CAAAGAGGCATCTGAGTCTACCAAGTACAAGTGTGCCCTCAGCTAACAGGCCAGATGCT	780
mTRT:	727	CAAAGAGGCATCTGAGTCTACCAAGTACAAGTGTGCCCTCAGCTAACAGGCCAGATGCT	786
SEQ. ID NO.124:	781	ATCCGTCCCCGAGACTGGAGGGAGGGACCCACAGGCAGGTGTACCAACCCCATCAGGCA	840
mTRT:	787	ATCCGTCCCCGAGACTGGAGGGAGGGACCCACAGGCAGGTGTACCAACCCCATCAGGCA	846

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SEQ. ID NO.124:	841	AATCATGGCTGCCAAGTCCTGTCGGTCCCCGAGGTGCCACTGCACAGAAAGATTGT	900
mTRT:	847	AATCATGGTGCAAGTCCTGTCGGTCCCCGAGGTGCCACTGCACAGAAAGATTGT	906
SEQ. ID NO.124:	901	CTTCTAAAGGAAAGGTGTCGACCTGACTCTCTGGGTGGTGTGCTGAAACACAACC	960
mTRT:	907	CTTCTAAAGGAAAGGTGTCGACCTGACTCTCTGGGTGGTGTGCTGAAACACAACC	966
SEQ. ID NO.124:	961	CCAGCTCCACATCTCTGTCACCAACCCGCCAAATGCCCTTCAGCTCAGGCCATTAA	1020
mTRT:	967	CCAGCTCCACATCTCTGTCACCAACCCGCCAAATGCCCTTCAGCTCAGGCCATTAA	1026
SEQ. ID NO.124:	1021	TTGAGACCAGACATTTCTTACTCCAGGGAGATGCCAACAGCGTCAAACCCCTCAT	1080
mTERT	1027	TTGAGACCAGACATTTCTTACTCCAGGGAGATGCCAACAGCGTCAAACCCCTCAT	1086
SEQ. ID NO.124:	1081	TCCTACTCACCAACCTCCAGCCTAACCTGACTGGGGCAGGAGACTGGTGGAGATCATCT	1140
mTERT	1087	TCCTACTCAGAACCTCCAGCCTAACCTGACTGGGGCAGGAGACTGGTGGAGATCATCT	1146
SEQ. ID NO.124:	1141	TTCTGGGCTCAAGGCCAGGACATCAGGACACTCTGAGGACACACCGCTATCCGCTC	1200
mTERT	1147	TTCTGGGCTCAAGGCCAGGACATCAGGACACTCTGAGGACACACCGCTATCCGCTC	1206
SEQ. ID NO.124:	1201	GATACTGGCAGATGGGCCCCCTGTTCCAACAGCTGCTGGTGAACCATGCCAGTGCCAAAT	1260
mTERT	1207	GATACTGGCAGATGGGCCCCCTGTTCCAACAGCTGCTGGTGAACCATGCCAGTGCCAAAT	1266
SEQ. ID NO.124:	1261	ATGTCAGACTCCTCAGGTACATTGCAAGGTTTCGAACAGCAAAACAGGTGACAGATG	1320
mTERT	1267	ATGTCAGACTCCTCAGGTACATTGCAAGGTTTCGAACAGCAAAACAGGTGACAGATG	1326
SEQ. ID NO.124:	1321	CCTTGAACACCAGCCCACCCACCTCATGGATTGCTCCGCTGCCACAGCAGTCCCTGGC	1380
mTERT	1327	CCTTGAACACCAGCCCACCCACCTCATGGATTGCTCCGCTGCCACAGCAGTCCCTGGC	1386
SEQ. ID NO.124:	1381	AGGTATATGGTTTCTTCGGGCTGTCCTGCAAGGTGGTGTGCTAGTCTCTGGGTA	1440
mTERT	1387	AGGTATATGGTTTCTTCGGGCTGTCCTGCAAGGTGGTGTGCTAGTCTCTGGGTA	1446
SEQ. ID NO.124:	1441	CCAGGCACAATGACGGCCCTCTTAAGAACCTAAAGAACGTTCATCTCGTTGGGAAAT	1500
mTERT	1447	CCAGGCACAATGACGGCCCTCTTAAGAACCTAAAGAACGTTCATCTCGTTGGGAAAT	1506
SEQ. ID NO.124:	1501	ACGGCAAGCTATCACTGCCAGGAACGTGATGGAAGATGAAACTAGAGGATTGCCACTGGC	1560
mTERT	1507	ACGGCAAGCTATCACTGCCAGGAACGTGATGGAAGATGAAACTAGAGGATTGCCACTGGC	1566
SEQ. ID NO.124:	1561	TCCGCACCGAGCCCCGGGAAGGACCGTGTCCCCGCTGAGAGCACCGTCTGAGGAGAGGA	1620
mTERT	1567	TCCGCACCGAGCCCCGGGAAGGACCGTGTCCCCGCTGAGAGCACCGTCTGAGGAGAGGA	1626
SEQ. ID NO.124:	1621	TCCGGCTACGTTCTGTTGGCTGATGGACACATACGGTACAGCTGCTTAGTCAT	1680
mTERT	1627	TCCGGCTACGTTCTGTTGGCTGATGGACACATACGGTACAGCTGCTTAGTCAT	1686
SEQ. ID NO.124:	1681	TCTTTACATCACAGAGAACATTCAGAACAGCTCTTCTTCTACCCCTAACAGTG	1740
mTERT	1687	TCTTTACATCACAGAGAACATTCAGAACAGCTCTTCTTCTACCCCTAACAGTG	1746
SEQ. ID NO.124:	1741	TGTGGAGCAAGCTGCAGAACATTGGACTCAGGAAACACCTTGAGAGAGTGCCCCCTACGGG	1800
mTERT	1747	TGTGGAGCAAGCTGCAGAACATTGGACTCAGGAAACACCTTGAGAGAGTGCCCCCTACGGG	1806

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SEQ. ID NO.124:	1801	ACCTGTACAAGAGGAGGTCAAGCATCACCAAGAACCTGGTAGCCATGCCATCTGCA	1860
mTERT	1807	ACCTGTACAAGAGGAGCTCAAGCATCACCAAGAACCTGGTAGCCATGCCATCTGCA	1866
SEQ. ID NO.124:	1861	GACTGGCTTCATCCCCAAGCCAAACGGCTGGGCCATTGTGAACATGAGTTATAGCA	1920
mTERT	1867	GACTGGCTTCATCCCCAAGCCAAACGGCTGGGCCATTGTGAACATGAGTTATAGCA	1926
SEQ. ID NO.124:	1921	TGGGTACCAGAGCTTGGGCAGAAGGAAGCAGGCCAGCATTTCACCCAGCGTCTCAAGA	1980
mTERT	1927	TGGGTACCAGAGCTTGGGCAGAAGGAAGCAGGCCAGCATTTCACCCAGCGTCTCAAGA	1986
SEQ. ID NO.124:	1981	CTCTCTTCAGCATGCTCAACTATGACC	2007
mTERT	1987	CTCTCTTCAGCATGCTCAACTATGACC	2013

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**Translated BLAST comparison of encoded protein**

BLASTX algorithm, NCBI website

SEQ. ID NO.124:	33	MTRAPRCPAVRSLLRSRREVWPLATFVRLGPEGRRLVQPGDPKIYRTLVAQCLVCMHW	212
mTRT:	1	MTRAPRCPAVRSLLRSRREVWPLATFVRLGPEGRRLVQPGDPKIYRTLVAQCLVCMHW	60
SEQ. ID NO.124:	213	CSQPPP PADLSFHQVSSLKELVARVQRLLCERNERNVLAFCFELLNEARGGPPMAFTSSVR	392
mTRT:	61	GSQPPP PADLSFHQVSSLKELVARVQRLLCERNERNVLAFCFELLNEARGGPPMAFTSSVR	120
SEQ. ID NO.124:	393	SYLPNTVIETLRVSGAWMLLSSRVGDDLLVYLLAHCALYLLVPPSCAYQVCGSPLYQICA	572
mTRT:	121	SYLPNTVIETLRVSGAWMLLSSRVGDDLLVYLLAHCALYLLVPPSCAYQVCGSPLYQICA	180
SEQ. ID NO.124:	573	TTDIWPSVSASYRPTRPVGRNFTNLRFIQQIKSSSRQEAKPKLALPSRGTKRHLSLTSTS	752
mTRT:	181	TTDIWPSVSASYRPTRPVGRNFTNLRFIQQIKSSSRQEAKPKLALPSRGTKRHLSLTSTS	240
SEQ. ID NO.124:	753	VPSAKKARCYPVPRVEEGPHRQLPTPSCKSWVPSPARSPEVPTAEKDLSKGVSDL	932
mTRT:	241	VPSAKKARCYPVPRVEEGPHRQLPTPSCKSWVPSPARSPEVPTAEKDLSKGVSDL	300
SEQ. ID NO.124:	933	SGSVCCKKPSSSTSLLSPPRQNAFQLRPFIETRHFYSRGDGQERLNPSFLLSNLQPNT	1112
mTRT:	301	SGSVCCKKPSSSTSLLSPPRQNAFQLRPFIETRHFYSRGDGQERLNPSFLLSNLQPNT	360
SEQ. ID NO.124:	1113	GARRLVEIIIFLGSRPRTSGPLCRTHRLSRRYQMRPLFQQLLNHAECQYVRLRSHCRF	1292
mTRT:	361	GARRLVEIIIFLGSRPRTSGPLCRTHRLSRRYQMRPLFQQLLNHAECQYVRLRSHCRF	420
SEQ. ID NO.124:	1293	RTANQQVTDALNTSPPHLMDLLRLHSSPWQVYGLRACLKVVSASLWGTRHNERRFFKN	1472
mTRT:	421	RTANQQVTDALNTSPPHLMDLLRLHSSPWQVYGLRACLKVVSASLWGTRHNERRFFKN	480
SEQ. ID NO.124:	1473	LKKFISLGKYGKLSLQELMWKMVKVEDCHWLRSSPGKDRVPAAEHLRERILATFLFWLMD	1652
mTRT:	481	LKKFISLGKYGKLSLQELMWKMVKVEDCHWLRSSPGKDRVPAAEHLRERILATFLFWLMD	540
SEQ. ID NO.124:	1653	TYVVQLLRSFFYITESTFQKNRLFFYRKSVWSKLQSIGVRQHLERVRLRELSQEEVRHHQ	1832
mTRT:	541	TYVVQLLRSFFYITESTFQKNRLFFYRKSVWSKLQSIGVRQHLERVRLRELSQEEVRHHQ	600
SEQ. ID NO.124:	1833	DTWLAMPICRLRFIPKPNCRLPIVNMMSYSMCTRALGRRKQAQHFTQRLKTLFSMLNYE	2006
mTRT:	601	DTWLAMPICRLRFIPKPNCRLPIVNMMSYSMCTRALGRRKQAQHFTQRLKTLFSMLNYE	658